

IN THE CLAIMS

Please cancel claims 1-20 without prejudice.

Please add new claims 21-40.

1-20. (Cancelled).

21. (Currently Amended) A mixed cut gemstone comprising:

a crown;

a pavilion;

four lower corner facets, said lower corner facets being triangles;

two long-side lower girdle facets, said long-side lower girdle facets being triangles
or trapezoids;

two short-side lower girdle facets, said short-side lower girdle facets being
triangles;

a plurality of step cuts, said step cuts being substantially equal in width; and

a plurality of rib lines;

whereby said steps being cuts are cut at a predetermined angle with respect to said
lower girdle facets with each step being at a slightly different angle, said different angle
step cuts allowing light that passes through the crown to hit the plurality of steps cuts at
different angles thereby bending the light several times in different directions thus
providing the gemstone with parallel incoming and outgoing rays of light that make the
gemstone appear more brilliant and scintillated.

22. (Previously Presented) The mixed cut gemstone of claim 21 further
comprising:

a crown;

a girdle;

a table;

four upper corner facets, said upper corner facets being polygons;

two long-side upper girdle facets, said long-side upper girdle facets being triangles;

two-short side upper girdle facets, said short-side upper girdle facets being triangles; and

four break table lines, said break table lines separating said table from said upper corner facets;

whereby said break table lines provide the gemstone with better dispersion and scintillation coefficients.

23. (Previously Presented) The mixed cut gemstone of Claim 22 wherein said crown is in a shape of a diamond.

24. (Previously Presented) The mixed cut gemstone of Claim 22 wherein said table is flat.

25. (Previously Presented) The mixed cut gemstone of Claim 22, wherein said lower corner facets have an inclination of approximately 40 to 50 degrees with respect to a plane of said girdle.

26. (Previously Presented) The mixed cut gemstone of Claim 22, wherein said lower corner facets are isosceles triangles.

27. (Previously Presented) The mixed cut gemstone of Claim 22, wherein said upper girdle facets have an inclination of approximately 45 to 55 degrees with respect to

a plane of said girdle.

28. (Previously Presented) The mixed cut gemstone of Claim 22, wherein said long-side and short-side upper girdle facets are isosceles triangles.
29. (Previously Presented) The mixed cut gemstone of Claim 22, wherein a depth of said girdle is approximately one twentieth of a length of said girdle.
30. (Previously Presented) The mixed cut gemstone of Claim 22, wherein a depth of said crown is approximately one tenth of a length of said girdle.
31. (Previously Presented) The mixed cut gemstone of Claim 22 wherein said rib lines divide said pavilion into eight sides.
32. (Previously Presented) The mixed cut gemstone of Claim 31 wherein said rib lines run from said girdle's eight sided shape to a culet line;
33. (Previously Presented) The mixed cut gemstone of Claim 22 wherein said rib lines converge at a culet point.
34. (Previously Presented) The mixed cut gemstone of Claim 22 wherein said table is slightly elevated from the surface of a girdle plane.
35. (Previously Presented) The mixed cut gemstone of Claim 34 wherein said crown has a depth of approximately one tenth of a length of said girdle.
36. (Previously Presented) The mixed cut gemstone of Claim 34 wherein said girdle has a depth of approximately one twentieth of a length of said girdle.
37. (Previously Presented) The mixed cut gemstone of Claim 22 wherein said pavilion has a depth of approximately one fourth of a length of said girdle.
38. (Previously Presented) The mixed cut gemstone of Claim 22 further comprising:

a plurality of crown facets.

39. (Previously Presented) The mixed cut gemstone of Claim 38 wherein said crown facets are rectangular.

40. (Previously Presented) The mixed cut gemstone of Claim 39 wherein said crown facets are situated between the long-side and short-side upper girdle facets.